WHAT IS CLAIMED IS:

- 1. A light guiding plate manufacturing apparatus, which
- 2 manufactures a light guiding plate, comprising:
- a cylindrical roller, which has a heater built-in, rotating
- 4 while fixing a stamper having a dot pattern formed on its
- 5 surface;
- substrate fixing means which reciprocates at a lower side
- 7 of said cylindrical roller in accordance with rotation of said
- 8 cylindrical roller while fixing a resin substrate; and
- 9 pressing means for pressing with a constant pressure said
- stamper, which is fixed to said cylindrical roller, onto a surface
- 11 of said resin substrate, which is fixed to said substrate fixing
- 12 means.
 - 1 2. The light guiding plate manufacturing apparatus
 - 2 according to claim 1, wherein said cylindrical roller is made of a
 - 3 material having a higher thermal expansion coefficient than a
 - 4 material forming of said stamper fixed to said cylindrical roller.
 - 1 3. The light guiding plate manufacturing apparatus
 - 2 according to claim 1, further comprising heating means for
 - 3 heating in advance said resin substrate fixed to said substrate

- 4 fixing means, wherein when a temperature of deflection under
- 5 load of the fixing resin substrate fixed by said substrate fixing
- 6 means is set to T, said heating means heats said resin substrate to
- 7 temperature in the range of (T±20) C and said stamper fixed to
- 8 said cylindrical roller to temperature in the range of from no less
- 9 than (T+10) C to no greater than (T+30) C.

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- 4. The light guiding plate manufacturing apparatus
- 2 according to claim 1, further comprising preheating means,
- 3 wherein when a temperature of deflection under load of the
- 4 fixing resin substrate fixed by said substrate fixing means is set
- 5 to T, said preheating means heats before said stamper is pressed
 - by said cylindrical roller in the vicinity of the surface of said
- 7 resin substrate to temperature in the range of $(T\pm20)$ °C.
- 5. A light guiding plate manufacturing method, which
- 2 manufactures an light guiding plate, comprising the steps of:
- fixing a stamper, having a dot pattern formed on its
- 4 surface, by a rotating cylindrical roller made of a material having
- 5 a higher thermal expansion coefficient than a material forming of
- 6 said stamper;
- fixing a resin substrate by substrate fixing means, which
- 8 reciprocates at a lower side of said cylindrical roller in
- 9 accordance with the rotation of said cylindrical roller;
- 10 heating said resin substrate to temperature in the range of

- 11 (T±20) C and said stamper to temperature in the range of from no
- 12 less than (T+10) c to no greater than (T+30) c when a
- 13 temperature of deflection under load of said resin substrate is set
- 14 to T; and
- pressing said stamper with a constant pressure, which is
- 16 fixed to said cylindrical roller, onto a surface of said resin
- 17 substrate, which is fixed to said substrate fixing means.